

ABSTRACT

Many proteins, when produced recombinantly, suffer from improper processing, folding and lack normal solubility. Modified proteins, including those indicative of disease states, also
5 can have such defects. The present invention is directed to methods of identifying proper and improper protein folding, aberrant processing and/or insolubility. The method relies on the use of two components: a specialized fusion protein and structural complementation. The fusion protein contains sequences from the protein of interest and one portion of a marker protein that, by itself, is not active. A host cell then provides the remainder of the marker protein that serves
10 to "complement" the function of the fused marker protein such that their association restores activity, permitting detection.